	Search Terms
1	MEAN
2	MEANS
3	MEDIAN
4	MEDIANS
5	PHASE
6	PHASES
7	POWER
8	POWERS
9	QPSK
10	QPSKS
11	QUADRATURE
12	QUADRATURES
13	(MEDIAN SAME (QPSK OR (QUADRATURE SAME PHASE)) SAME MEAN SAME POWER)

	Total	US-PGPUB	USPAT	USOCR	EPO	JPO	Derwent	IBM TDB
1	708990							
2	1809							
3	85322							
4	1352							
5	1805173							
6	365073							
7	3418858							
8	107555							
9	10795							
10	0							
11	69128							
12	144							
13	6							

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	X		US 20040093178 A1	20040513	10	Method and apparatus for determining signal-to-interference ratio with reduced bias effect	702/69
2	X		US 20040092281 A1	20040513		Spectrum-adaptive networking	455/522
3	X		WO 2004045085 A2	20040527	NA	METHOD AND APPARATUS FOR DETERMINING SIGNAL-TO-INTERFERENCE RATIO WITH REDUCED BIAS EFFECT	
4	X		US 3467844 A	19690916		BRUSHLESS AXIAL AIRGAP INDUCTOR-TYPE DYNAMOELECTRIC MACHINES AND SYNCHRO SYSTEMS USING THE SAME	310/168
5	X		US 2832934 A	19580429		Automatic matching transformer	333/17.1
6	X		US 2494795 A	19500117		Frequency-detector and frequency-control circuits	329/323

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1			Shin, Sung-Hyuk et al.								US 20040093178	
2	455/446; 455/448		Burchfiel, Jerry D.									
3			SHIN, SUNG-HYUK et al.									
4	310/111; 310/114; 310/154.01; 310/184; 310/254; 310/256; 310/268		BIRD WILLIAM GEORGE									
5	318/669; 333/17.3; 333/248; 333/32		WALTERS GLENN A									
6	331/177R; 331/74		BRADLEY WILLIAM E									

	Search Terms
1	AVERAGE
2	AVERAGES
3	BIT
4	BITS
5	BYTE
6	BYTES
7	INTERFERENCE
8	INTERFERENCES
9	MEAN
10	MEANS
11	MEDIAN
12	MEDIANS
13	POWER
14	POWERS
15	SIGNAL
16	SIGNALS
17	SIR
18	SIRS
19	SYMBOL
20	SYMBOLS
21	(((MEDIAN SAME MEAN SAME AVERAGE) SAME (BYTES OR SYMBOL OR BITS) SAME POWER) AND (SIR OR (INTERFERENCE SAME SIGNAL)))

	Total	US-PGPUB	USPAT	USOCR	EPO	JPO	Derwent	IBM TDB
1	1121349							
2	43829							
3	659279							
4	366585							
5	96289							
6	92966							
7	540510							
8	17686							
9	708990							
10	1809							
11	85322							
12	1352							
13	3418858							
14	107555							
15	3728161							
16	1940874							
17	40369							
18	1765							
19	210102							
20	228317							
21	2							

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	X		US 20040093178 A1	20040513	10	Method and apparatus for determining signal-to-interference ratio with reduced bias effect	702/69
2	X		US 20040093178 A	20040513	10	Signal-to-interference ratio determining method for third generation wireless system, involves estimating average signal power of demodulated symbol output from data demodulator	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1			Shin, Sung-Hyuk et al.								US 20040093178	
2			SHIN, S et al.								US 20040093178	

	Search Terms
1	INTERFERENCE
2	INTERFERENCES
3	SHIN-SUNG-HYUK
4	SHIN-SUNG-HYUKS
5	SIGNAL
6	SIGNALS
7	SIR
8	SIRS
9	ZEIRA-ARIELA
10	ZEIRA-ARIELAS
11	(((SHIN-SUNG-HYUK.IN.) OR (ZEIRA-ARIELA.IN.)) AND (SIR OR (INTERFERENCE SAME SIGNAL)))

	Total	US-PGPUB	USPAT	USOCR	EPO	JPO
1	540510					
2	17686					
3	64					
4	0					
5	3728161					
6	1940874					
7	40369					
8	1765					
9	147					
10	0					
11	75					

	Derwent	IBM TDB
1		
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	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	X		US 20040223538 A1	20041111	10	Multi user detection using equalization and successive interference cancellation	375/148
2	X		US 20040219943 A1	20041104		Uplink power control using received reference signal	455/522
3	X		US 20040214593 A1	20041028		Power control during a transmission pause	455/522
4	X		US 20040202151 A1	20041014	7	Multiuser detection of differing data rate signals	370/352
5	X		US 20040196890 A1	20041007		User equipment using combined closed loop/open loop power control	375/130
6	X		US 20040170132 A1	20040902		Path loss measurements in wireless communications	370/294
7	X		US 20040165567 A1	20040826		Multiuser detector for variable spreading factors	370/342
8	X		US 20040157636 A1	20040812		Method and system for adjusting downlink outer loop power to control target SIR	455/522
9	X		US 20040141565 A1	20040722		Groupwise successive interference cancellation for block transmission with reception diversity	375/267
10	X		US 20040141483 A1	20040722		Outer loop/weighted open loop power control	370/335
11	X		US 20040141482 A1	20040722		Assigning uplink slots to optimize uplink power control gain in wireless communications	370/335
12	X		US 20040141480 A1	20040722		Adaptive algorithm for a cholesky approximation	370/329
13	X		US 20040141467 A1	20040722		Weighted open loop power control	370/252
14	X		US 20040131010 A1	20040708		Extended algorithm data estimator	370/210
15	X		US 20040121794 A1	20040624		Method and system for adjusting downlink outer loop power to control target SIR	455/522
16	X		US 20040116122 A1	20040617		Enhancing reception using intercellular interference cancellation	455/445
17	X		US 20040106426 A1	20040603		Bias error compensated initial transmission power control for data services	455/522
18	X		US 20040093178 A1	20040513		Method and apparatus for determining signal-to-interference ratio with reduced bias effect	702/69
19	X		US 20040063453 A1	20040401		Outer loop transmit power control using channel-adaptive processing	455/522

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1			Zeira, Ariela								US 20040223538	
2	455/69		Terry, Stephen E. et al.									
3	455/68; 455/69		Shin, Sung-Hyuk et al.									
4			Reznik, Alexander et al.								US 20040202151	
5			Zeira, Ariela et al.									
6			Shin, Sung-Hyuk et al.									
7			Kim, Younglok et al.									
8	455/115.1; 455/67.11		Koo, Chang-Soo et al.									
9	375/343; 375/347; 375/350		Kwak, Jaeyoung et al.									
10	370/342		Zeira, Ariela et al.									
11	370/342		Zeira, Eldad et al.									
12	370/341		Kim, Younglok et al.									
13			Zeira, Ariela et al.									
14			Pan, Jung-Lin et al.									
15			Koo, Chang-Soo et al.									
16	455/423; 455/425		Zeira, Eldad et al.									
17	455/69		Koo, Chang-Soo et al.									
18			Shin, Sung-Hyuk et al.									
19	455/69		Koo, Chang-Soo et al.									

	U	1	Document ID	Issue Date	Pages	Title	Current OR
20	X		US 20040022230 A1	20040205		User equipment employing a time division duplex technique	370/347
21	X		US 20040005903 A1	20040108		Method and apparatus for providing biasing criteria for binary decisions for use in wireless communications to enhance protection	455/513
22	X		US 20030223398 A1	20031204		Method and apparatus for blind code detection	370/342
23	X		US 20030198279 A1	20031023		Combined closed loop/open loop power control in a time division duplex communication system	375/130
24	X		US 20030193916 A1	20031016		User equipment utilizing weighted open loop power control	370/335
25	X		US 20030086394 A1	20030508		Time division duplex method for determining whether to initiate handover criteria	370/331
26	X		US 20030086380 A1	20030508		Method and apparatus for interference signal code power and noise variance estimation	370/280
27	X		US 20030068984 A1	20030410		Pathloss aided closed loop power control	455/69
28	X		US 20030054849 A1	20030320		Outer loop transmit power control using channel-adaptive processing	455/522
29	X		US 20030035394 A1	20030220		Dynamic link adaption for time division duplex (TDD)	370/335
30	X		US 20030031145 A1	20030213		Dynamic link adaption for time division duplex (TDD)	370/335
31	X		US 20030021249 A1	20030130		Multiuser detector for variable spreading factors	370/335
32	X		US 20030016641 A1	20030123		Channel quality measurements for downlink resource allocation	370/335
33	X		US 20020176392 A1	20021128		Multiuser detector for variable spreading factors	370/342
34	X		US 20020168996 A1	20021114		Common control channel uplink power control for adaptive modulation and coding techniques	455/522
35	X		US 20020168995 A1	20021114		Common control channel uplink power control for adaptive modulation and coding techniques	455/522

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
20	370/248		Zeira, Ariela et al.									
21	455/133; 455/515		Dick, Stephen G. et al.									
22	370/479		Haim, John W. et al.									
23			Zeira, Ariela et al.									
24	370/342		Zeira, Ariela et al.									
25	370/336		Zeira, Eldad et al.									
26	370/281; 370/294		Kim, Younglok et al.									
27	455/68		Shin, Sung-Hyuk et al.									
28	455/69		Koo, Chang-Soo et al.									
29	370/280; 370/294; 370/337; 370/347; 370/348		Zeira, Eldad et al.									
30	370/336		Zeira, Eldad et al.									
31	370/342; 370/461		Kim, Younglok et al.									
32	370/337		Terry, Stephen E. et al.									
33	370/335; 370/441		Reznik, Alexander et al.									
34	455/69		Terry, Stephen E. et al.									
35			Terry, Stephen E. et al.									

	U	1	Document ID	Issue Date	Pages	Title	Current OR
36	X		US 20020168994 A1	20021114		Common control channel uplink power control for adaptive modulation and coding techniques	455/522
37	X		US 20020101845 A1	20020801		Modified block space time transmit diversity encoder	370/342
38	X		US 20020085504 A1	20020704		Base station utilizing a weighted open loop power control	370/252
39	X		US 20020080853 A1	20020627		Method of employing weighted open loop power control for a user equipment	375/130
40	X		US 20020080766 A1	20020627		Method of employing weighted open loop power control in a base station	370/347
41	X		US 20020080765 A1	20020627		Method for outer loop/weighted open loop power control apparatus employed by a base station	370/347
42	X		US 20020080764 A1	20020627		User equipment method employing a time division duplex technique	370/347
43	X		US 20020080762 A1	20020627		User equipment utilizing weighted open loop power control	370/342
44	X		US 20020080747 A1	20020627		User equipment employing a time division duplex technique	370/335
45	X		US 20020075939 A1	20020620		Outer loop/weighted open-loop power control apparatus for a base station	375/130
46	X		US 20020031105 A1	20020314		Downlink power control for multiple downlink time slots in TDD communication systems	370/337
47	X		US 20020018454 A1	20020214		Multi-user detection using an adaptive combination of joint detection and successive interface cancellation	370/336
48	X		US 20020015393 A1	20020207		Adaptive uplink/downlink timeslot assignment in a hybrid wireless time division multiple access/code division multiple access communication system	370/335

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
36	455/69		Terry, Stephen E. et al.									
37	370/335		Kim, Younglok et al.									
38	370/347		Zeira, Ariela et al.									
39	370/318; 370/342; 370/347		Zeira, Ariela et al.									
40	370/318; 370/342; 375/130		Zeira, Ariela et al.									
41	370/318; 370/342		Zeira, Ariela et al.									
42	370/318; 370/342; 375/130		Zeira, Ariela et al.									
43	370/318; 370/347; 375/130		Zeira, Ariela et al.									
44	370/280		Zeira, Ariela et al.									
45			Zeira, Ariela et al.									
46	375/130; 455/522; 455/69		Zeira, Eldad et al.									
47	370/280		Misra, Raj Mani et al.									
48	370/337; 375/140		Pan, Jung-Lin et al.									

	U	1	Document ID	Issue Date	Pages	Title	Current OR
49	X		US 20020006122 A1	20020117		Channel estimation for time division duplex communication systems	370/335
50	X		US 20020003782 A1	20020110		Code power measurement for dynamic channel allocation	370/280
51	X		US 6816470 B2	20041109		Method and apparatus for interference signal code power and noise variance estimation	370/280
52	X		US 6748235 B1	20040608		Power control during a transmission pause	455/522
53	X		US 6745045 B2	20040601		Common control channel uplink power control for adaptive modulation and coding techniques	455/522
54	X		US 6728292 B2	20040427		Combined closed loop/open loop power control in a time division duplex communication system	375/130
55	X		US 6714527 B2	20040330		Multiuser detector for variable spreading factors	370/335
56	X		US 6622024 B2	20030916		Outer loop transmit power control using channel-adaptive processing	455/522
57	X		US 6615054 B2	20030902		Common control channel uplink power control for adaptive modulation and coding techniques	455/522
58	X		US 6606343 B2	20030812		Outer loop/weighted open-loop power control apparatus for a base station	375/130
59	X		US 6603798 B2	20030805		User equipment employing a time division duplex technique	375/130
60	X		US 6603797 B1	20030805		Outer loop/weighted open loop power control in a time division duplex communication system	375/130
61	X		US 6600773 B2	20030729		Method for outer loop/weighted open loop power control apparatus employed by a base station	375/130

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
49	370/280; 370/294		Zeira, Ariela									
50	370/335; 370/337; 375/130		Pan, Jung-Lin et al.									
51	370/281; 370/294; 375/346; 455/296		Kim; Younglok et al.									
52	455/68; 455/69		Shin; Sung-Hyuk et al.									
53	455/561; 455/67.13; 455/69		Terry; Stephen E. et al.									
54	370/342; 375/295; 455/522		Zeira; Ariela et al.									
55	370/342; 375/148		Kim; Younglok et al.									
56	370/276; 370/280; 455/69		Koo; Chang-Soo et al.									
57	455/69		Terry; Stephen E. et al.									
58	370/342; 455/522		Zeira; Ariela et al.									
59	370/342; 375/146; 455/522		Zeira; Ariela et al.									
60	370/342; 375/295; 455/522; 455/69		Zeira; Ariela et al.									
61	370/342; 455/522		Zeira; Ariela et al.									

	U	1	Document ID	Issue Date	Pages	Title	Current OR
62	X		US 6600772 B1	20030729		Combined closed loop/open loop power control in a time division duplex communication system	375/130
63	X		US 6597724 B2	20030722		User equipment method employing a time division duplex technique	375/130
64	X		US 6597723 B1	20030722		Weighted open loop power control in a time division duplex communication system	375/130
65	X		US 6590927 B2	20030708		Method of employing weighted open loop power control for a user equipment	375/130
66	X		US 6587697 B2	20030701		Common control channel uplink power control for adaptive modulation and coding techniques	455/522
67	X		US 6584139 B2	20030624		Method of employing weighted open loop power control in a base station	375/130
68	X		US 6577669 B2	20030610		Base station utilizing a weighted open loop power control	375/130
69	X		US 6577668 B2	20030610		User equipment utilizing weighted open loop power control	375/130
70	X		WO 2004047331 A1	20040603		ASSIGNING UPLINK SLOTS TO OPTIMIZE UPLINK POWER CONTROL GAIN IN WIRELESS COMMUNICATIONS	
71	X		WO 2004045085 A2	20040527		METHOD AND APPARATUS FOR DETERMINING SIGNAL-TO-INTERFERENCE RATIO WITH REDUCED BIAS EFFECT	
72	X		WO 2004025973 A1	20040325		METHOD AND SYSTEM FOR ADJUSTING DOWNLINK OUTER LOOP POWER TO CONTROL TARGET SIR	
73	X		WO 2004010573 A1	20040129		GROUPWISE SUCCESSIVE INTERFERENCE CANCELLATION FOR BLOCK TRANSMISSION WITH RECEPTION DIVERSITY	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
62	370/342; 375/295; 455/522		Zeira; Ariela et al.									
63	370/342; 455/522		Zeira; Ariela et al.									
64	370/342; 375/295; 455/522		Zeira; Ariela et al.									
65	370/342; 375/146; 455/522		Zeira; Ariela et al.									
66	455/69		Terry; Stephen E. et al.									
67	370/342; 375/295; 455/522		Zeira; Ariela et al.									
68	370/342; 375/146; 455/522		Zeira; Ariela et al.									
69	370/342; 375/146; 455/522		Zeira; Ariela et al.									
70			ZEIRA, ELDAD et al.									
71			SHIN, SUNG-HYUK et al.									
72			KOO, CHANG-SOO et al.									
73			KWAK, JAEYOUNG et al.									

	U	1	Document ID	Issue Date	Pages	Title	Current OR
74	X		WO 3025513 A2	20030327		METHOD AND APPARATUS FOR INTERFERENCE SIGNAL CODE POWER AND NOISE VARIANCE ESTIMATION	
75	X		WO 3017544 A1	20030227		TIME DIVISION DUPLEX METHOD FOR DETERMINING WHETHER TO INITIATE HANDOVER	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
74			KIM, YOUNGLOK et al.									
75			ZEIRA, ELDAD et al.									

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graph>mean<paragraph>power)
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```
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<and>
(average<paragraph>power<parag
raph>mean<paragraph>median)
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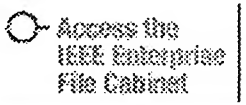

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